## I. CLAIMS 1 2 What is claimed is: 3 4 A pool cleaner control device comprising: 5 1. 6 A) a skimmer assembly submerged in a body of water and having 7 first housing means with a bottom wall including a bottom 8 9 outlet port and a filter basket assembly mounted within said first housing means; 10 11 cover means mounted over said filter basket assembly having 12 B) first and second inlet through openings and a shaft through 13 opening, said cover means further including valve means for 14 selectively closing said first inlet through opening; 15 16 second housing means including an internal wall and a bottom 17 wall, and said second housing means being mounted below 18 19 said cover means and within said filter basket assembly; 20 piston means including a bottom surface and a top surface and 21 D) being mounted within said second housing means, said piston 22 means being axially movable within said second housing 23 means and further including an elongated tubular shaft with 24 25 first and second ends said first end mounted through said piston means and extending to said bottom surface and said 26 shaft slidably passing through said cover means with said 27 second end extending outwardly through said shaft through 28

opening a predetermined distance above said cover means and inside said body of water;

E) a flexible diaphragm skirt having a substantially hemispherical shape and including a peripheral edge, said diaphragm skirt mounted to and covering said bottom surface, and said peripheral edge mounted to said internal wall to prevent water inside said second housing and below said diaphragm skirt from passing above said diaphragm skirt;

F) means for restricting the diameter inside said elongated tubular shaft so that water enters through said second inlet through opening and through said second end thereby forcing said piston means to move towards said cover means and when said piston means reaches said cover means said valve means is opened permitting water to enter to said first inlet through opening and closing said second inlet through opening; and

G) a suction pump having an inlet connected to said bottom outlet port so that the water displace form said first housing means is replaced with water passing through said cutout and said filter basket assembly from said second housing and the space left is taken by water passing through said second inlet opening and by said piston means being urged upwardly and limited by said restricting means until said piston means reach said cover means and said actuating means cause said valve means to open.

The device set forth in claim 1 further including: 2. 1 2 3 spring means for urging said piston means away from said H) cover means. 4 5 The device set forth in claim 2 wherein said actuating means 3. 6 includes a flexible means having third and fourth ends with said 7 third end being attached to said second end and said fourth end 8 9 being cooperatively engaged to said valve means to cause said valve 10 means to open and close in response to the position of said second 11 end. 12 A pool cleaner control device comprising: 13 4. 14 a skimmer assembly submerged in a body of water and having 15 A) first housing means with a bottom wall including a bottom 16 17 outlet port and a filter basket assembly mounted within said first housing means; 18 19 B) cover means mounted over said filter basket assembly having 20 21 first and second inlet through openings and a shaft through opening, said cover means further including valve means for 22 selectively closing said first inlet through opening; 23 24 C) second housing means including an internal wall and a bottom 25 wall, and said second housing means being mounted below 26 said cover means and within said filter basket assembly; 27

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piston means including a bottom surface and a top surface and D) being mounted within said second housing means, said piston means being axially movable within said second housing means and further including an elongated tubular shaft with first and second ends said first end mounted through said piston means and extending to said bottom surface and said shaft slidably passing through said cover means with said second end extending outwardly through said shaft through opening a predetermined distance above said cover means and inside said body of water;

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- E) a flexible diaphragm skirt having substantially the shape of a cup and including a peripheral edge, said diaphragm skirt mounted to said bottom surface, said peripheral edge cooperatively coacting with said internal wall to prevent water inside said second housing and below said diaphragm skirt from passing above said diaphragm skirt;
- F) means for restricting the diameter inside said elongated tubular shaft so that water enters through said second inlet through opening and through said second end thereby forcing said piston means to move towards said cover means and when said piston means reaches said cover means said valve means is opened permitting water to enter to said first inlet through opening and closing said second inlet through opening; and
- G) a suction pump having an inlet connected to said bottom outlet port so that the water displace form said first housing means is

replaced with water passing through said cutout and said filter 1 basket assembly from said second housing and the space left is 2 3 taken by water passing through said second inlet opening and 4 by said piston means being urged upwardly and limited by said restricting means until said piston means reach said cover 5 means and said actuating means cause said valve means to 6 7. open. 9

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5. The device set forth in claim 4 further including:

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H) spring means for urging said piston means away from said cover means.

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The device set forth in claim 5 wherein said actuating means includes flexible means having third and fourth ends with said third end being attached to said second end and said fourth end being cooperatively engaged to said valve means to cause said valve means to open and close in response to the position of said second end.